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Physical Requirements Specifications  
for the Classes:

ELECTRICIAN I AND II

Applicants must be physically able to perform, efficiently and effectively, the essential duties of the position.

A. Physical Profile Requirements:

Job analysis of positions in the class has resulted in the identification and establishment of the following requirements, and identified the following typical tasks.

Typical Physical Tasks:

Read blueprints; inspect primary lines and equipment; splice and trace color coded wires; trace humming transformers; wire circuitry in panel control box; check live circuit; work on hot wire; apply truck brakes to avoid a child; stretch from ladder to change lights; climb up and down scaffolds; lift air conditioning units and motors; lift manhole covers; pull electrical lines in conduits; climb poles to change light; work on electrical equipment on a high scaffold; walk to various buildings doing repair work; dig trenches for electrical lines; carry heavy electrical equipment.

Physical Abilities and Required Level:

Near Vision	6.1	Dynamic Flexibility	6.2
Far Vision	6.1	Gross Body Coordination	4.9
Visual Color Discrimination	5.0	Trunk Strength	5.6
Hearing	5.2	Static Strength	5.9
Finger Dexterity	5.7	Explosive Strength	5.0
Manual Dexterity	6.1	Dynamic Strength	5.2
Arm Hand Steadiness	6.2	Gross Body Equilibrium	5.9
Speed of Limb Movement	6.3	Mobility	6.0
Extent Flexibility	5.3	Stamina	5.7
		Effort	6.1

B. Working Condition Requirements:

Job analysis has resulted in the following profile of the working conditions of positions in the class:

WORKING CONDITIONS	Range of Ratings	Most Common Ratings	Explanation of Most Common Rating
1. Exposure to Sun	1-3	2	10% to 50% of work time spent outside a building and exposed to the sun.
2. Work above floor level	2-3	3	Some work done from ladders, scaffolds, etc., more than 12 feet above the ground.
3. High Temperature	0-2	1	Considerable work time spent in temperatures 80° and above performing light and moderate work.
4. Low Temperature	0-1	0	Work done in temperatures above 60 degrees.
5. Sudden temperature changes*	0-2	0	Work not subjected to sudden temperature change.
6. Confined or cramped body position	1-2	1	Less than 1/3 of work time spent in confined or cramped positions.
7. Humidity*	0-1	0	Average Humidity: Work performed, inside or outside where humidity is typical of offices or local climate.
8. Wetness	0-1	0	Work tasks do not require getting parts of the body and/or clothing wet.
9. Air Pressure	0	0	Work does not involve <u>unusually</u> high or low air pressure.
10. Noise	0-2	1	Occasionally, there are unusually loud sounds in environment (e.g., work in an automobile repair shop).
11. Vibration	0-1	1	Work involves minor strain or vibration (e.g., use industrial type floor polisher).
12. Slippery Floors	0-1	0	Work does not involve working on unusually slippery surfaces.
13. Oil	0-2	0	Work does not normally involve contact with oil or grease.
14. Body Injuries	0-2	1	Work involves infrequent possibility of

WORKING CONDITIONS	Range of Ratings	Most Common Ratings	Explanation of Most Common Rating
			body injury.
15. Burns	0-2	1	Work involves possibility of superficial burns (redness, no blistering).
16. Electrical Hazards	1	1	Work involves possibility of electrical shock.
17. Explosives	0	0	Does not work with explosive substances (e.g., dynamite, tanks of compressed gas).
18. Radiation	0-1	0	Does not work in areas where radiation (e.g., radioactive isotopes, x-rays) is present.
19. Dust	1-2	1	Work area contains minor amount of dust <u>in the air</u> .
20. Silica dust in air/asbestos*	0-2	0	Does not work in area in which the air contains free silica dust or around asbestos.
21. Toxic/Poisonous Substances	0-1	1	Rarely any opportunity for exposure to toxic/poisonous substances.
22. Allergenic substances	0-1	1	Infrequent exposure to common allergy-causing agents (e.g., bee stings, pollens, animals).
23. Irregular or extended work hours	0-1	1	Work beyond normal work hours or change of work hours occasionally involved.

(0 = Not Applicable/None

\*Non-sequential scale: all applicable values shown.)

### C. General Conditions

Failure to meet the physical requirements cited above or inability to tolerate the specified working conditions or any other condition which would cause applicants to be a hazard to themselves or others is cause for disqualification.

However, handicaps in any areas will not result in disqualification unless the requirements cited above are not met. Applicants who demonstrate that they

are capable of performing the essential functions of the position with reasonable accommodation will not be disqualified under this standard.

Any disqualification under this section will be made only after a review of all pertinent information including the results of the medical examination, and requires the approval of the Director.

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This is the first physical requirements specification for the classes  
ELECTRICIAN I AND II.

Effective Date: December 7, 1984

DATE APPROVED: 11/30/84

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Director of Personnel Services